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 US

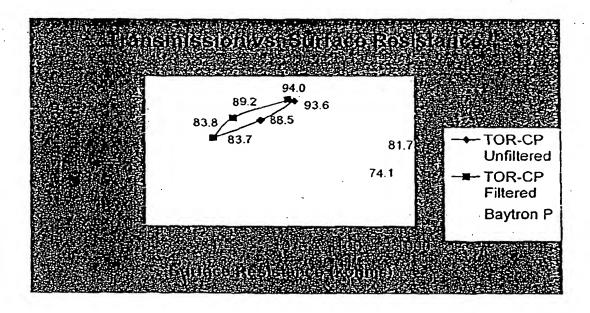
(63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:

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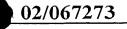
(54) Title: COMPOSITIONS PRODUCED BY SOLVENT EXCHANGE METHODS AND USES THEREOF



(57) Abstract: Disclosed are compositions formed by a method for exchanging solvent in a mixture that includes water and an optionally substituted thiophene. Also disclosed are methods for making and using such compositions.



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CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



INTERNATIONAL SEARCH REPORT

ernational	application	Nο

PCT/US02/04679

A. CLASSIFICATION OF SUBJECT MATTER 1DC(2) HOLD 1/12 1/20: COSG 75/00: HOLD 23/14						
IPC(7) : H01B 1/12, 1/20; C08G 75/00; H01L 23/14 US CL : 252/500, 301.32; 528/373, 377, 378; 257/82; 340/825.82; 362/800						
	International Patent Classification (IPC) or to both nat	ional class	ification and IPC			
	DS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 252/500, 301.32; 528/373, 377, 378; 257/82; 340/825.82; 362/800						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WEST (search terms include: polythiophene, solvent; LED, conductive)						
C. DOCI	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap			Relevant to claim No.		
X 	US 5,766,515 A (JONAS ET AL) 16 June 1998, see lines 30-35; Col 4, lines 53-57; examples 1-2.	Abstract,	Col 2, lines 1-16; Col 3,	41-43, 62-65, 117-121, 140-141		
A	•			1-3, 30-34		
x	US 5,998,014 A (MULLER ET AL) 7 December 1999, see Abstract; Col 2, lines 44-56;		41-43, 62-65. 117-121, 140-141			
Α.	example 1. US 5,401,537 A (KOCHEM ET AL) 28 March 1995, see Abstract; examples.		1-3, 30-34, 41-43, 62- 65, 117-121, 140-141			
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	documents are listed in the continuation of Box C.		See patent family annex.			
Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand to the art which is not considered to be "A" document defining the general state of the art which is not considered to be				cation but cited to understand the		
	plication or patent published on or after the international filing date	"X"	document of particular relevance; the considered novel or cannot be considered when the document is taken alone	claimed invention cannot be ered to involve an inventive step		
	t which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y"	document of particular relevance; the considered to involve an inventive ste	claimed invention cannot be		
	t referring to an oral disclosure, use, exhibition or other means		combined with one or more other suc being obvious to a person skilled in the	h documents, such combination		
"P" document published prior to the international filing date but later than the "&" document member of the same patent family priority date claimed		family				
	Date of the actual completion of the international search Date of mailing of the international search report 15 May 2002 (15 05 2002)					
	2 (15.05.2002) ailing address of the ISA/US	Aushoria	ed officer			
Commissioner of Patents and Trademarks Box PCT Name and Trademarks Name and Trademarks						
Was	Washington, D.C. 20231					
	Facsimile No. (703)305-3230 Telephone No. 703 308-0001 Form PCT/ISA/210 (second sheet) (July 1998)					
- Oim - C1/13/	Train (account sincer) (ruly 1990)	•	•			



Interna	ication No.
PCT/US02/04679	· ·

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)				
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
3. Claim Nos.: 4-29, 35-40, 44-61, 66-116, 122-139, 142-146 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)				
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows:				
 As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite 				
payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.				

Form PCT/ISA/210 (continuation of first sheet(1)) (July 1998)